

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL IN CONJUNCTION WITH CONSTRUCTION OF MD 713 (ARUNDEL MILLS BOULEVARD), IN ANNE ARUNDEL COUNTY. MD 713 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. WORK EFFORTS INCLUDE THE INSTALLATION AND REMOVAL OF NEW MAST ARMS, MAST ARM POLE, SIGNAL HEADS, AND SIGNAL RELATED EQUIPMENT.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA EIGHT-PHASE SEMI-ACTUATED MODE. MD 713 WILL OPERATE WITH PROTECTED LEFT-TURN PHASING. THE SIDE ROAD (MD 100 RAMP) WILL OPERATE AS A SEPARATE PHASE.

CONTROLLER REQUIREMENTS

MAINTAIN EXISTING CONTROLLER

EQUIPMENT LIST "B"

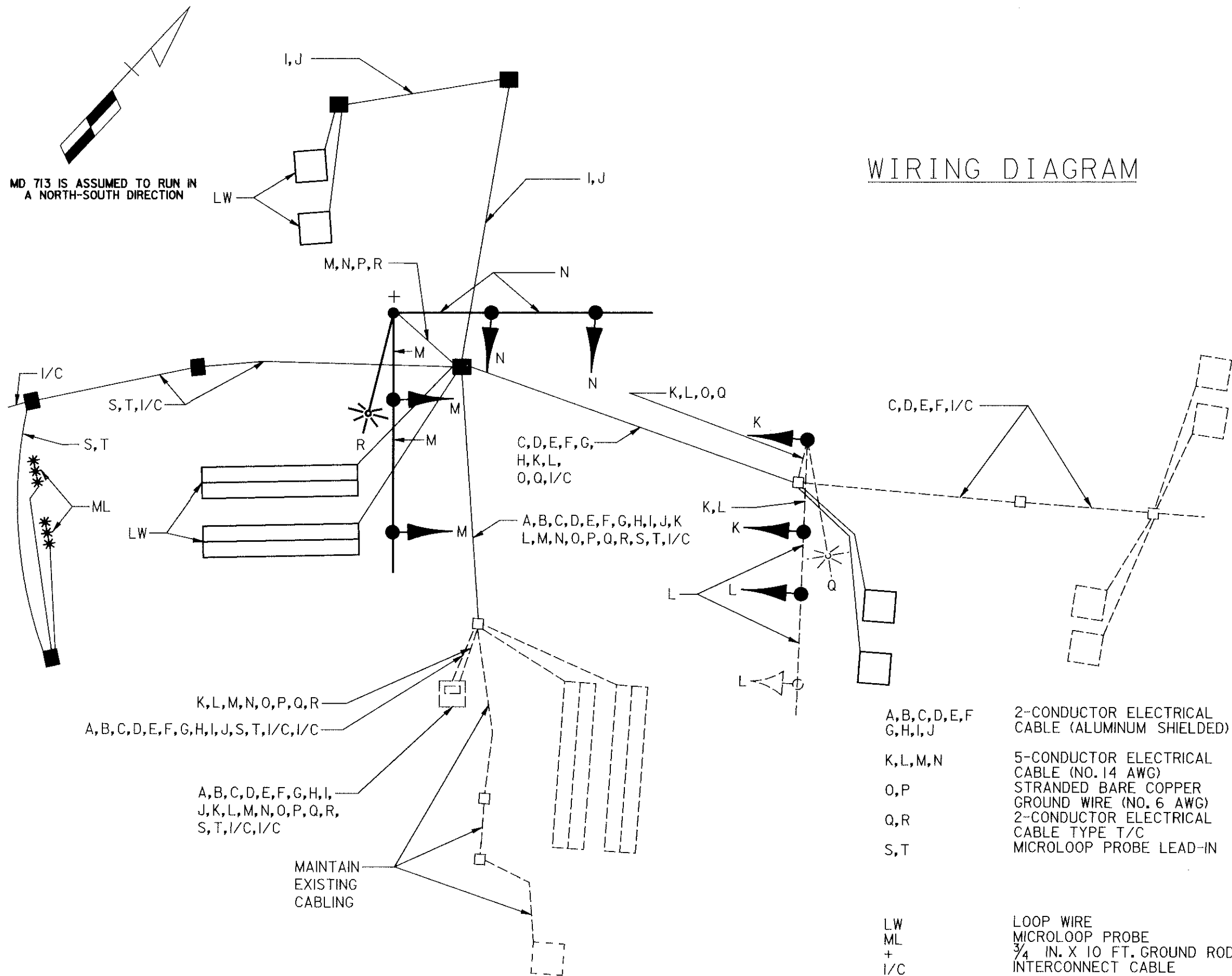
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR FOR INSTALLATION.

Item No.	Specification Section	Quantity	Description
1001	104	1 EA	Maintenance of Traffic.
2001	205	2 CY	Test Pit Excavation.
5001	556	50 LF	24 in. wide HAPPTM - white for stop line.
8001	816	2 EA	Four-channel, time delay output, loop detector amplifier.
8002	814	5 EA	12 in., one-way three section (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
8003	814	2 EA	12 in., one-way three section (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
8004	813	38 SF	Furnish and install mast arm mounted sheet aluminum signs to consist of: 1 EA D3-2 "Arundel Mills Blvd." (72"x16") 1 EA R3-5(5) Lane Use Control - Thru and Left (30"x36") 3 EA R3-5L lane use control-Left Only (30"x36")
8009	810	2 EA	Micro-loop probe lead-in cable (500').
8016	818	1 EA	27 ft. steel mast arm pole and twin 50'/70' mast arms (Note: 4-2" dia. x 90" anchor bolts).
8020	806	1 EA	250 Watt HPS luminaire with photocell.
8021	805	1 EA	Ground rod - 3/4 in. diameter x 10 ft. length.
8022	810	3550 LF	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
8023	810	430 LF	2-conductor electrical cable type T/C (No. 12 A.W.G.).
8024	810	930 LF	5-conductor electrical cable (No. 14 AWG).

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Item No.	Specification Section	Quantity	Description
8026	810	1680 LF	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
8027	815	420 LF	Saw out for signal loop detector.
8028	811	5 EA	Handhole.
8029	810	1000 LF	12-Pair interconnect cable jelly filled.
8031	805	130 LF	3 in. polyvinyl chloride (Schedule 80) electrical conduit - trenched.
8032	805	5 CY	Concrete foundation for traffic signal equipment.
8033	806	1 EA	20' lighting bracket for traffic signal structure.
8034	805	100 LF	1" galvanized steel electrical conduit (detector wire sleeve).
8035	805	230 LF	4 in. polyvinyl chloride (Schedule 80) electrical conduit - slotted in roadway.
8036	804	320 LF	Bare copper stranded ground wire (No. 6 A.W.G.).



GENERAL NOTES

- THE UTILITIES SHOWN ON THE CONSTRUCTION PLAN ARE SCHEMATIC ONLY AND ARE NOT TO BE CONSIDERED TO BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES CAN BE LOCATED IN THE FIELD. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES A MINIMUM OF TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION OPERATIONS IN THE VICINITY OF THE UTILITIES. ANY DAMAGE INCURRED BY THE CONTRACTOR SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES AND/OR AGENCIES AT LEAST FIVE (5) DAYS BEFORE STARTING WORK SHOWN ON THESE PLANS:

MISS UTILITY 1-800-257-7777

- CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR CONSTRUCTION AND MATERIALS (SHA, OCTOBER, 1993) AND ALL AMENDMENTS.

- THE CONTACT PERSON FOR SHA DISTRICT #5 ARE AS FOLLOWS:

MR. PAUL D. ARMSTRONG  
DISTRICT ENGINEER  
410-841-1001

MR. LARRY ELLIOTT  
ASSISTANT DISTRICT ENGINEER - TRAFFIC  
410-841-5450

MR. JOHN MAYS  
ASSISTANT DISTRICT ENGINEER - UTILITY  
410-841-1003

MR. CHARLES GEORGE  
ASSISTANT DISTRICT ENGINEER - MAINTENANCE  
410-841-1005

MR. RICHARD L. DAFF  
CHIEF, TRAFFIC OPERATIONS DIVISION  
410-787-7630

THE POWER COMPANY REPRESENTATIVE IS:  
BGE  
MR. BERNIE THUMAN (SUPERVISOR OF ENGINEERING)  
7317 PARKWAY DRIVE SOUTH  
HANOVER, MARYLAND 21076  
410-859-9030

PHASE CHART

	1	2	3	4	5	6	7	8	
	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	
Phase 1 & 6	← G	← G	G	G	R	R	R	R	→
1 & 6 Change	← Y	← Y	Y	Y	R	R	R	R	→
Phase 2 & 6	← R	← R	G	G	G	G	R	R	→
2 & 6 Change	← R	← R	Y	Y	Y	Y	R	R	→
Phase 4	R	R	R	R	R	R	G	G	
4 Change	R	R	R	R	R	R	Y	Y	
Flashing Operation	FL/R	FL/R	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	

(C) SG-6

APPROVALS

TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION

ASST. CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION

DIRECTOR, TRAFFIC & SAFETY



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
GENERAL INFORMATION SHEET

MD 713 (RELOCATED) AND MD 100 RAMPS

DRAWN BY: C. Jednorski  
CHECKED BY: [Signature]  
SCALE: NTS  
DATE: 8/25/92

F.A.P. NO.  
S.H.A. NO.  
COUNTY: ANNE ARUNDEL  
LOG MILE:

TS NO.  
3228-61  
T.I.M.S. NO.

SHEET NO.  
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